

ESR - 3000

Erythrocyte Sedimentation Rate Analyser



EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

►► Product Introduction

ESR 3000 is an automatic Erythrocyte Sedimentation Rate analyzer capable of performing standardized ESR analysis complying with the modified Westergren method. Testing of blood sedimentation rate allows for the monitoring of inflammation and infection in the body.

- Fast: reading time 30 min and 60 min equivalent to the 1 h and 2 h Westergren method
- High quality vacuum glass tubes used for blood collection and running tests: ensure more precise sedimentation rate than plastic tubes
- Cost of tests equals cost of tubes only!
- No blood handling: conceived to simplify ESR analysis as much as possible, avoiding sample manipulation and removing the risk of operator infection
- Positive detection: optional barcode reader for ESR tubes avoids identification errors
- Traceability: built-in thermal printer with automatic print-out of sedimentation rate and kinetic curve of sedimentation
- Simplicity: stand-alone instrument with mono-directional LIS interface
- Throughput: 60 samples per hour (30 min mode)
- Maintenance free



Vacuum glass tubes for ESR



30 wells with individual Infrared detectors for random testing



Optional barcode reader for easy tube identification

►► Consumables



| TUBES | NAME | TYPE | QUANTITY | REFERENCE |
|-------|--------------------|---------------------|------------|-----------|
| | ESR Citrated Tubes | Vacuum Glass tubes* | 1000 units | C030003 |

| CONTROLS | NAME | LEVELS | QUANTITY | REFERENCE | CVS | OVS |
|----------|---------|-------------------------|----------------|-----------|----------|---------|
| | SedTrol | Normal and pathological | 2 x 9 ml vials | R030001 | 115 days | 28 days |
| | | Normal and pathological | 4 x 9 ml vials | R030002 | 115 days | 28 days |

►► Random Access Erythrocyte Sedimentation Rate Analysis

To Each His own Operating Method

Methode 1: Randomly insert tubes without referencing them and wait for results.

Methode 2: Identify a specific well and assign it a precise tube by scanning the bar-code or entering it manually. Tubes are thus clearly identified and referenced and can be assigned to their respective patients.

Minimal Costs and no Maintenance

ESR 3000 requires no preventive maintenance whatsoever and uses no reagents. The purchase of vacuum glass tubes has a negligible effect on operational costs.

User-friendly and Efficient

Its large LCD touch screen makes for comfortable and easy use of the ESR 3000. The optional barcode reader allows for quick and easy identification of samples.



Reliable and Accurate

Highly reliable and fully automated, the ESR 3000 has a reading accuracy rate inferior to 0.2 mm and a reproducibility inferior to 3% or 2 mm.

Guaranteed Precise Results

To ensure optimum results, the ESR 3000 has 2 levels of quality control:

- External: specifically dedicated SFRI controls
- Internal: automatic kinetic analysis of sedimentation every 3 min, resulting in the print-out of the kinetic curve of sedimentation and allowing for the verification of the analysis process.

Practical and Handy

In carrying out analyses, the ESR 3000 can measure the room temperature and automatically convert results to the reference temperature of 18°C. This is necessary to avoid considerable variations of values, due to different room temperatures, and will help ensure easy patient follow up and comparison with previous tests. The ESR 3000 can store up to 200 test results a day, and all results can be transferred via LIS to patient files.

Time Saving and Easy Work Flow

ESR 3000 has a capacity of 30 simultaneous samples with random access and can process up to 60 samples per hour (30 min mode). Every sample well is equipped with individual infrared detectors for precise and accurate measurements. The ESR 3000 follows the sedimentation rate of each sample independently, memorizing levels for the whole period of analysis.

►► TECHNICAL SPECIFICATIONS

PRINCIPLES

Photometric infrared reading principle

Automatic measurement of RBC level every 3 min

MEASURING MODE

30 min or 60 min correlated modified Westergren method

CAPACITY

30 samples processed simultaneously with random access

THROUGHPUT

60 tests per hour (30 minute mode)

ACCURACY RATE

< 0.2 mm

TEMPERATURE ACCURACY

< 0.3° C

REPRODUCIBILITY

< 3%; ± 2 mm

AUTOMATIC TEMPERATURE CORRECTION

ESR results can be automatically adjusted to 18°C

QUALITY CONTROL

Normal and pathological controls; 9 ml vials

MEMORY STORAGE

200 results per day

SFRI VACUUM GLASS TUBES

Total sample volume 1.28 ml

Contains sodium citrate solution 0.32 ml

Tubes complete with labels

INPUT/OUTPUT

Barcode interface (optional barcode)

Parallel printer interface

RS232 port for mono-directional LIS

PRINTOUT

Fast thermal printer, 57.5 mm wide paper,
recording width 48 mm

DISPLAY

5" LCD touch screen

Monochrome display

OPERATING ENVIRONMENT

Temperature 10°C – 40°C

Humidity < 85% (max humidity)

POWER REQUIREMENTS

A.C. 110/220 V $\pm 10\%$; 50 – 60 Hz

Consumption: 50 W

DIMENSIONS

300(W) x 180(H) x 400(D) mm

WEIGHT

10 kg

HPLC Servicing, Validation, Trainings and Preventive Maintenance :

HPLC Servicing :HPLC Servicing : We have team of service engineers who can attend to any make of HPLC promptly @the most affordable cost.

Trainings :We also take up preventive Maintenance to reduce downtime of HPLC's Trainings.

AMC's/CMC :AMC's/CMC :We offer user training both in-House and at customer sites on HPLC principles, operations, trouble-shooting.

Validations :Validations :We have protocols for carrying out periodic Validations as per GLP/GMP/USFDA norms.

Instruments :Instruments :We offer instruments/Renting Services Modules like pumps,detector etc. on Rent.



About Analytical Technologies

Analytical Technologies is synonymous for offering technologies for doing analysis and is the Fastest Growing Global Brand having presence in at least 96 countries across the global. Analytical Technologies Limited is an ISO:9001 Certified Company engaged in Designing, Manufacturing, Marketing & providing Services for the Analytical, Chromatography, Spectroscopy, Bio Technology, Bio Medical, Clinical Diagnostics, Material Science & General Laboratory Instrumentation. Analytical Technologies, India has across the Country operations with at least 4 Regional Offices, 6 Branch Offices & Service Centers. Distributors & Channel partners worldwide.

Our Products & Technologies



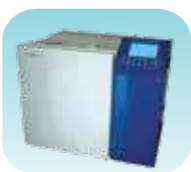
UV/VIS
Spectro 2080+
Double Beam



Infra FTIR



Optima Gas
Chromatograph
3007



Optima Gas
Chromatograph
2979 Plus



Flash
Chromatograph



Atomic Absorption
Spectrophotometer



Liquid Particle
Counter



Optical Emission
Spectrophotometer



DSC/TGA



Semi Auto Bio
Chemistry Analyzer



HEMA 2062
Hematology
Analyzer



Micro Plate
Reader/Washer



URINOVA 2800
Urine Analyzer



Total Organic
Carbon 3800



Fully Automated
CLIA



NOVA-2100
Chemistry Analyzer



PCR/Gradient PCR/
RTPCR



TOC
Analyzer



Laser Particle
Size Analyzer



Ion Chromatograph



Water purification
system

Regulatory compliances



Corporate Social Responsibility

Analytical Foundation is a nonprofit organization (NGO) found for the purpose of:



Analytical
Foundation

1. Research & Innovation Scientist's awards/QC Professional Award : Quality life is possible by innovation only and the innovation is possible by research only, hence ANALYTICAL FOUNDATION is committed to identify such personalities for their contributions across various field of Science and Technology and awarding them yearly. To participate for award, send us your details of research / testing / publication at Info@analyticalfoundation.org

2. Improving quality of life by offering YOGA Training courses, Work shops/Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXYFY human minds,souls and body by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.



 **Analytical**®
Technologies Limited

HPLC Solutions MultipleLabs Analytical Bio-Med Analytical Distributors Analytical Foundation (Trust)

Corporate & Regd. Office:
Analytical House, # E67 & E68,
Ravi Park, Vasna Road, Baroda,
Gujarat 390 015. INDIA

T: +91 265 2253620
+91 265 2252839
+91 265 2252370
F: +91 265 2254395

E: info@hplctechnologies.com
info@multiplelabs.com
info@analyticalgroup.net

W. www.analyticalgroup.net
www.hplctechnologies.com
www.multiplelabs.com

Sales & Support Offices:
across the country :
Distributors & Channel
partners World Wide